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PTO/SB/21 (02-04)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	09/659,737	
	Filing Date	September 11, 2000	
	First Named Inventor	Blumenberg et al.	
	Art Unit	1652	
	Examiner Name	M. Monshipouri	
Total Number of Pages in This Submission	17	Attorney Docket Number	71369.172 and PFI-024US

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
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	-Two Publications (13 Pages)	
	- Return Postcard	
<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>		
Firm or Individual name	Ann-Louise Kerner, Ph.D., Reg. No. 33,523	
Signature		
Date	February 20, 2004	

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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
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PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

# FREE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180.00

## Complete if Known

Application Number	09/659,737
Filing Date	September 11, 2000
First Named Inventor	Blumenberg et al.
Examiner Name	M. Monshipouri
Art Unit	1652
Attorney Docket No.	71369.172 and PFI-024US

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None
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Account  
Number  
Deposit  
Account  
Name

08-0219

Hale and Dorr LLP

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## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1) (\$)			--

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	-20** =	X	Fee from below	Fee Paid
Independent Claims	-3** =	X		
Multiple Dependent				

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1202 18	2202 9	Claims in excess of 20	
1201 86	2201 43	Independent claims in excess of 3	
1203 290	2203 145	Multiple dependent claim, if not paid	
1204 86	2204 43	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2) (\$)			--

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for <i>ex parte</i> reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	180.00
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 180.00

## SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	Ann-Louise Kerner, Ph.D.	Registration No. (Attorney/Agent)	33,523	Telephone	(617) 526-6192
Signature	<i>Ann-Louise Kerner</i>	Date	2/20/2004		

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS: SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 09/659,737

Filing Date: September 11, 2000

Applicant: Blumenberg et al.

Examiner: M. Monshipouri

Docket No.: 71369.172 and PFI-024

Group Art Unit: 1652

Cust. No.: 23483

Title: Genes and Polynucleotides Associated with Ultraviolet Radiation-Mediated Skin Damage and Uses Thereof

\*\*\*\*\*

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date below.

2/20/04  
Mailing Date

Sharon Matthews  
Sharon Matthews

\*\*\*\*\*

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants submit herewith the references on the attached form PTO-1449, copies of which are enclosed. This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97 (c) (2), after the mailing of a first Office Action on the merits, but before the mailing date of a Notice of Allowance or an action that otherwise closes prosecution in the application. Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office on a counterpart foreign application.

This submission does not represent that a search has been made and does not constitute an admission that the listed documents are material to the patentability of the invention, or that the listed documents are prior art. Applicant reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application. If it should be

determined that any of the listed documents do not constitute prior art under United States law, Applicant reserves the right to present to the Officer the relevant facts and law regarding the appropriate status of such documents.

It is respectfully requested that the Examiner initial and return copies of the enclosed form PTO-1449 with the next Patent Office communication.

Applicants also respectfully request that the Examiner *initial* and return copies of the forms PTO-1449 that were submitted on *May 13, 2003* and *June 6, 2003* with the next Patent Office communication.

Please charge the fee set forth in 37 C.F.R. § 1.17(p) of \$180.00 and any additional fee that might be due in connection with this matter to Deposit Account Number 08-0219.

If there are any questions, please call the undersigned at the telephone number indicated below.

Respectfully submitted,

Date: 2/20/04

Ann-Louise Kerner  
Ann-Louise Kerner, Ph.D.  
Reg. No. 33,523

HALE AND DORR LLP  
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Fax: (617) 526-5000



Subst. For, PTO-1449

**INFORMATION DISCLOSURE  
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number  
**71369.172 and  
PFI-024US**Application Number  
**09/659,737**Applicant  
**Blumenberg et al.**Filing Date  
**September 11, 2000**Group Art Unit  
**1652**

Sheet 1 OF 1

**U.S. Patent Documents**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**Foreign Patent Documents**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

**Other Documents** (Including Author, Title, Date Pertinent Pages, Etc.)

	C1	Dorow et al., "Identification of a new family of human epithelial protein kinases containing two leucine/isoleucine-zipper domains," <i>Eur. J. Biochem.</i> , Vol. 213, No.2, 1993, 701-710
	C2	Su et al., "Signal transduction by the JNK MAPK cascade and ultraviolet light induced cytokine gene expression," <i>Photochemistry and Photobiology</i> , Vol. 67, Special Issue, 1998, 60S

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through citation if not conformance and not considered. Include copy with next communication to applicant.